PREPARED FOR

ANALYTICAL REPORT

Attn: Terri Choy AECOM 1001 Bishop Street Honolulu, Hawaii 96813 Generated 3/16/2023 9:44:07 AM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-124460-2

Eurofins Seattle 5755 8th Street East Tacoma WA 98424



Eurofins Seattle

Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization

M. Elaine Walker

Generated 3/16/2023 9:44:07 AM

Authorized for release by Marie Walker, Senior Project Manager M.Elaine.Walker@et.eurofinsus.com (253)248-4972

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Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Laboratory Job ID: 580-124460-2

Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions	5
Client Sample Results	
QC Sample Results	11
Chronicle	12
Certification Summary	13
Sample Summary	14
Chain of Custody	15
Receint Checklists	18

Case Narrative

Client: AECOM Job ID: 580-124460-2

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-124460-2

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE Client: AECOM

Project: Red Hill - AFFF Assessment Sampling Report Number: 580-124460-2

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/08/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.6 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

GLYCOLS

Samples AF-RHMW17-WGN01LF-2302W4 (580-124460-3), AF-RHMW17S-WGN01LF-2302W4 (580-124460-4), AF-RHMW17S-WQEB01-2302W4 (580-124460-5), AF-RHMW17D-WGN01LF-2302W4 (580-124460-6) and AF-RHMW17D-WQFB01-2302W4 (580-124460-7) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 03/14/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: AECOM Job ID: 580-124460-2

Project/Site: Red Hill - AFFF Assessment Sampling

Qualifiers

GC Semi VOA

 Qualifier
 Qualifier Description

 M
 Manual integrated compound.

 U
 Undetected at the Limit of Detection.

Glossary

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Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Seattle

Page 5 of 19 3/16/2023

Client: AECOM Job ID: 580-124460-2

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17-WGN01LF-2302W4 Lab Sample ID: 580-124460-3

Date Collected: 03/03/23 13:55 Matrix: Water

Date Received: 03/08/23 10:00

	Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)
--	--

Analyte	Result	Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	3.0	LLM	5.0	1.1 mg/l			03/14/23 19:12		

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Client: AECOM Job ID: 580-124460-2

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17S-WGN01LF-2302W4 Lab Sample ID: 580-124460-4

Date Collected: 03/03/23 11:15 Eas Cample 15: 000-12-17-00-1

Date Received: 03/08/23 10:00

Analyte		Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	30 [I M	5.0	1.1 mg/l			03/14/23 19:35		

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Client: AECOM Job ID: 580-124460-2

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17S-WQEB01-2302W4 Lab Sample ID: 580-124460-5

Date Collected: 03/03/23 15:10 Matrix: Water

Date Received: 03/08/23 10:00

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)										
Analyte	Result Qualif	ier LOQ	DL	Unit	D	Prepared	Analyzed			
2-(2-Butoxyethoxy)ethanol	3.0 U M	5.0	1.1	mg/L			03/14/23 19:59			

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Client: AECOM Job ID: 580-124460-2

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17D-WGN01LF-2302W4 Lab Sample ID: 580-124460-6

Date Collected: 03/03/23 12:35

Matrix: Water

Date Received: 03/08/23 10:00

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0 IIM	5.0	1.1 mg/l			03/14/23 20:22	1

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Client: AECOM Job ID: 580-124460-2

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17D-WQFB01-2302W4 Lab Sample ID: 580-124460-7

Date Collected: 03/03/23 12:05

Matrix: Water

Date Received: 03/08/23 10:00

Analyte	Result	Qualifier	LOQ	DL (Unit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	11	ma/l			03/14/23 20:45	1	

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QC Sample Results

Client: AECOM Job ID: 580-124460-2

Project/Site: Red Hill - AFFF Assessment Sampling

Method: 8015C GLY - Glycols- Direct Injection (GC/FID)

3.0 U M

Lab Sample ID: MB 680-767579/12 **Client Sample ID: Method Blank**

Matrix: Water

Analyte

Analysis Batch: 767579

MB MB Result Qualifier LOQ DL Unit Analyzed Dil Fac Prepared

1.1 mg/L

Lab Sample ID: LCS 680-767579/1006 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

5.0

2-(2-Butoxyethoxy)ethanol

Analysis Batch: 767579

Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec Limits 2-(2-Butoxyethoxy)ethanol 20.0 22.2 50 - 150 mg/L 111

Lab Sample ID: LCSD 680-767579/7 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 767579

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Limits RPD Limit Unit D %Rec 2-(2-Butoxyethoxy)ethanol 20.0 15.9 79 50 - 150 50 mg/L

3/16/2023

Prep Type: Total/NA

03/14/23 15:42

Job ID: 580-124460-2

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17-WGN01LF-2302W4

Lab Sample ID: 580-124460-3

Lab Sample ID. 300-124400-3

Matrix: Water

Date Collected: 03/03/23 13:55 Date Received: 03/08/23 10:00

Client: AECOM

	Batch	Batch		Dilution	Batch		Prepared
Prep Type	Type	Method	Run	Factor	Number Analyst	Lab	or Analyzed
Total/NA	Analysis	8015C GLY		1	767579 JCK	EET SAV	03/14/23 19:12

Client Sample ID: AF-RHMW17S-WGN01LF-2302W4 Lab Sample ID: AF-RHMW17S-WGN01LF-2302W4

Lab Sample ID: 580-124460-4 Matrix: Water

Date Collected: 03/03/23 11:15 Date Received: 03/08/23 10:00

Batch Batch Dilution Batch **Prepared Prep Type** Type Method Run **Factor** Number Analyst Lab or Analyzed Total/NA Analysis 8015C GLY 767579 JCK EET SAV 03/14/23 19:35

Client Sample ID: AF-RHMW17S-WQEB01-2302W4 Lab Sample ID: 580-1

Client Sample ID: AF-RHMW17S-WQEB01-2302W4 Lab Sample ID: 580-124460-5

Date Collected: 03/03/23 15:10 Matrix: Water

Date Received: 03/08/23 10:00

Batch **Batch** Dilution Batch **Prepared** Method Number Analyst or Analyzed **Prep Type Factor** Type Run Lab 03/14/23 19:59 EET SAV Total/NA Analysis 8015C GLY 767579 JCK

Client Sample ID: AF-RHMW17D-WGN01LF-2302W4 Lab Sample ID: 580-124460-6

Date Collected: 03/03/23 12:35 Matrix: Water

Date Received: 03/08/23 10:00

Batch **Batch** Dilution Batch **Prepared Prep Type** Method **Number Analyst** or Analyzed Type Run **Factor** Lab Total/NA Analysis 8015C GLY 767579 JCK EET SAV 03/14/23 20:22

Client Sample ID: AF-RHMW17D-WQFB01-2302W4 Lab Sample ID: 580-124460-7

Date Collected: 03/03/23 12:05 Matrix: Water

Date Received: 03/08/23 10:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015C GLY		1	767579	JCK	EET SAV	03/14/23 20:45

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Seattle

Accreditation/Certification Summary

Client: AECOM Job ID: 580-124460-2

Project/Site: Red Hill - AFFF Assessment Sampling

Laboratory: Eurofins Savannah

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority ANAB		rogram ept. of Defense ELAP	L2463	Expiration Date 09-22-24
The following analyte the agency does not	•	ort, but the laboratory is not	certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015C GLY		Water	2-(2-Butoxyethoxy)ethanol	

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Sample Summary

Client: AECOM Job ID: 580-124460-2

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-124460-3	AF-RHMW17-WGN01LF-2302W4	Water	03/03/23 13:55	03/08/23 10:00
580-124460-4	AF-RHMW17S-WGN01LF-2302W4	Water	03/03/23 11:15	03/08/23 10:00
580-124460-5	AF-RHMW17S-WQEB01-2302W4	Water	03/03/23 15:10	03/08/23 10:00
580-124460-6	AF-RHMW17D-WGN01LF-2302W4	Water	03/03/23 12:35	03/08/23 10:00
580-124460-7	AF-RHMW17D-WQFB01-2302W4	Water	03/03/23 12:05	03/08/23 10:00

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Eurofins FGS, Seattle 5755 8th Street East	Chain of Custody Record	ody Record		Seurofins Environment Testing America
Tacoma, WA 98424		Lab PM:	racking No(s):	COC No:
	Sampler: ALS	Elaine Walker		Page:
Client Information	Phone: 2086 MB (34	E-Mail: M.Elaine.Walker@EurofinsET.com	Hawaii	Page 1 of 1 Job #:
Сотралу:	- bwsid:	Analysis Requested		Preservation Codes:
	Due Date Requested:			A - HCL M - Hexane B - NaOH N - None
op St. Suite 1600	AT Requested (days): Rush - ASAP	joi		C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - Na-MSO4 Q - Na2SO3
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& eurofins Environment Testing America

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.om)/ Mark Kromis (mark.kromis@aecom.com)	WO #:		20 00	(oN 1	// / 	} }	Dets	Water	V - MCAA W - pH 4-5
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Sample Identification	Sample Date	Preserva		\times			X	$\prod_{i=1}^{n}$	
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12012									
i i				Sample	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	y be assessed if sam	amples are retai	stained longer than Archive For	1 month) Months
Non-Hazard — Flammable — Skin Irritant — Poison B. Deliverable Bennested: I. III. IV. Other (specify)	Pre	Hadiological r2)=see TAT abov	/e. DoD Stag		Special Instructions/QC Requirements: DOD QSM project.	irements: DOD QS			
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				Cook	Cooler Temperature(s) °C and Other Remarks:	Other Remarks:		4.6/4.	0
∆ Yes ∆ No				-				_	Ver: 01/16/2019

🔆 eurofins Environment Testing America

Chain of Custody Record

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424

			•	💸 eurofins - Environment Testing
Eurofins FGS, Seattle	Chain of Custody Record			
	- 1		No(s):	COC No: 2302W4AFEA11
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Company:	Description.			į.
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	Compliance Project: Δ Yes Δ No		0 I	ņ
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n Tanji (watson.tanji@aecom.com.y wan koomoy. I Name:	Project #: 60697810		of co	Ľ
	SSOW#:	ISW	()	
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no je od je	Sample Date Time G=grab)	X		
Sample Identification	100	× z z	9	
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AE PHMM17D-WQFB01-2302W4	T W	+		
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M	Date/Time: 1250	AECON Benefit DV	Date/Time:	Company
Relinatished by:	1		arks:	1.6/9/2
Seals Intert Custody Seal No.:		Cooler Lamber		Ver: 01/16/2019
Custody Seals Illiaci.				

Client: AECOM Job Number: 580-124460-2

Login Number: 124460 List Source: Eurofins Seattle

List Number: 1

Creator: Presley, Kim A

Cleator. Fresiey, Milli A		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	N/A	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	N/A	
Containers are not broken or leaking.	N/A	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client: AECOM Job Number: 580-124460-2

Login Number: 124460
List Source: Eurofins Savannah
List Number: 2
List Creation: 03/10/23 03:02 PM

Creator: Harley, Tynisha

oreator. Harley, Tymona		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	